

3 a processor to perform drawing operations to generate the images for the image frame,  
4 the processor marking memory pages corresponding to regions of the image frame that have  
5 been updated while performing the drawing operations; and

6 a display controller in communication with the memory to access the image frame and to  
7 send only the marked memory pages of the image frame to the display to refresh the display.

1 4. (Previously Amended) The system of claim 3, wherein the image frame is  
2 divided into tiles representing two-dimensional regions of the image frame, each of the tiles is  
3 stored in one separate memory page.

1 5. (Previously Amended) The system of claim 3, wherein each of the memory pages  
2 has a size of four Kilobytes.

1 6. (Previously Amended) The system of claim 3, wherein the image frame is  
2 represented by a configuration where color components of a pixel are deposited in contiguous  
3 memory locations.

1 7. (Previously Amended) The system of claim 3, wherein the image frame is  
2 represented by a configuration where color components of a pixel are separated and deposited in  
3 multiple color planes.

1 8. (Cancelled).

1 9. (Cancelled).

1 10. (Previously Amended) A method to refresh a display, comprising:  
2 storing at least one image frame such that content of the image frame is stored in a  
3 plurality of memory pages in a memory;  
4 marking memory pages corresponding to regions of the image frame that have been  
5 updated while performing drawing operations; and  
6 sending only the marked memory pages of the image frame to the display to refresh the  
7 display.

1           11.     (Previously Amended) The method of claim 10 further comprising:  
2           dividing the image frame into tiles representing two-dimensional regions of the image  
3     frame; and  
4           storing each of the tiles in one separate memory page.

1           12.     (Previously Amended) The method of claim 10 further comprises using memory  
2     pages of four Kilobytes in size.

1           13.     (Previously Amended) The method of claim 10 further comprises organizing the  
2     image frame using a configuration where color components of a pixel are deposited in  
3     contiguous memory locations.

1           14.     (Previously Amended) The method of claim 10, further comprises organizing the  
2     image frame using a configuration where color components of a pixel are separated and  
3     deposited in multiple color planes.

1           15.     (Previously Amended) A program embodied on a system-readable medium to  
2     refresh a display, comprising:  
3           a first sub-program to control storing at least one image frame in a memory such that  
4     content of the image frame is stored in a plurality of memory pages in the memory;  
5           a second sub-program to mark memory pages corresponding to regions of the image  
6     frame that have been updated while performing drawing operations; and  
7           at least one sub-program to access the image frame and to send only the marked memory  
8     pages of the image frame one memory page at a time to the display to refresh the display.

1           16.     (Cancelled).

1           17.     (Cancelled).

1           18.     (Original) The program of claim 15 further comprising:  
2           a third sub-program to divide the image frame into tiles representing regions of the image  
3     frame and to store each tile in a separate memory page.

1           19.     (Original) The program of claim 15 further comprising:  
2           a third sub-program to organize the image frame using a configuration where color  
3 components of a pixel are deposited in contiguous memory locations.

1           20.     (Original) The program of claim 15 further comprising:  
2           a third sub-program to organize the image frame using a configuration where color  
3 components of a pixel are separated and deposited in multiple color planes.

1           21.     (Original) The system of claim 3, wherein the display controller sends the image  
2 frame one memory page at a time to the display to refresh the display.

1           22.     (Original) The method of claim 10, wherein the sending of the marked memory  
2 pages of the image frame to the display to refresh the display further comprises sending the  
3 marked memory pages one memory page at a time.

1           23.     (Original) The system of claim 3, wherein the image frame is divided into tiles  
2 each representing a two-dimensional region of the image frame.

1           24.     (Original) The program of claim 15 further comprising:  
2           a third sub-program to divide the image frame into tiles representing regions of the image  
3 frame.